



IFW16

RAW SEQUENCE LISTING

DATE: 09/17/2004

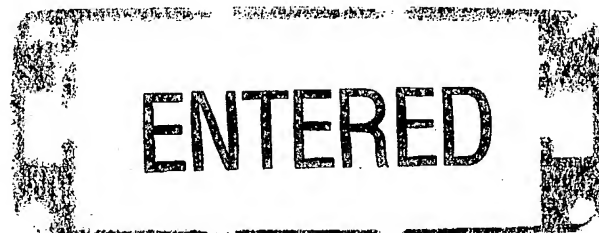
PATENT APPLICATION: US/10/035,397

TIME: 15:51:42

Input Set : A:\240412 SEQLIST.TXT

Output Set: N:\CRF4\09172004\J035397.raw

4 <110> APPLICANT: Shirley, Bret A.
 5 Babuka, Susan
 6 Chen, Bao-Lu
 7 Hora, Maninder
 8 Choe, Minna
 9 Tellers, Melanie
 11 <120> TITLE OF INVENTION: HSA-Free Formulations of Interferon-Beta
 14 <130> FILE REFERENCE: PP17201.003
 16 <140> CURRENT APPLICATION NUMBER: 10/035,397
 17 <141> CURRENT FILING DATE: 2001-10-25
 19 <150> PRIOR APPLICATION NUMBER: 60/330,404
 20 <151> PRIOR FILING DATE: 2001-10-18
 22 <150> PRIOR APPLICATION NUMBER: 60/282,614
 23 <151> PRIOR FILING DATE: 2001-04-09
 25 <160> NUMBER OF SEQ ID NOS: 2
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 166
 31 <212> TYPE: PRT
 32 <213> ORGANISM: Homo sapiens
 34 <400> SEQUENCE: 1
 35 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
 36 1 5 10 15
 37 Cys Gln Lys Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
 38 20 25 30
 39 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
 40 35 40 45
 41 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
 42 50 55 60
 43 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
 44 65 70 75 80
 45 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
 46 85 90 95
 47 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
 48 100 105 110
 49 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
 50 115 120 125
 51 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
 52 130 135 140
 53 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
 54 145 150 155 160
 55 Thr Gly Tyr Leu Arg Asn
 56 165



RAW SEQUENCE LISTING

DATE: 09/17/2004

PATENT APPLICATION: US/10/035,397

TIME: 15:51:42

Input Set : A:\240412 SEQLIST.TXT

Output Set: N:\CRF4\09172004\J035397.raw

```

59 <210> SEQ ID NO: 2
60 <211> LENGTH: 166
61 <212> TYPE: PRT
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Human interferon-beta mutein with cysteine to
66     serine substitution at position 17
68 <400> SEQUENCE: 2
69 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
70 1          5          10          15
71 Ser Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
72          20          25          30
73 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
74          35          40          45
75 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
76          50          55          60
77 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
78 65          70          75          80
79 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
80          85          90          95
81 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
82          100         105         110
83 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
84          115         120         125
85 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
86          130         135         140
87 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
88 145         150         155         160
89 Thr Gly Tyr Leu Arg Asn
90          165

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/035,397

DATE: 09/17/2004

TIME: 15:51:43

Input Set : A:\240412 SEQLIST.TXT

Output Set: N:\CRF4\09172004\J035397.raw